

# **“The Water We Drink”**

Consumer Confidence Rule (CCR)

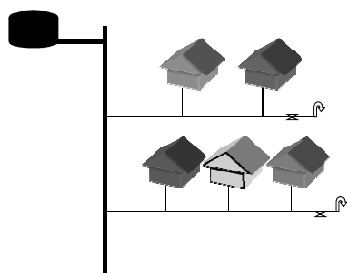
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## **CCR Requirement**

- Code of Federal Regulations – Title 40 Part 141 Subpart O
- Annual report including information about water system activities for the previous 5 years
  - The report is to be distributed every year
  - Water system has to be active for one full year before the first CCR is due
  - Certification required from the water system to the State of proof of publication
- Consumer Confidence Reports are required for all community water systems

## Community Water System

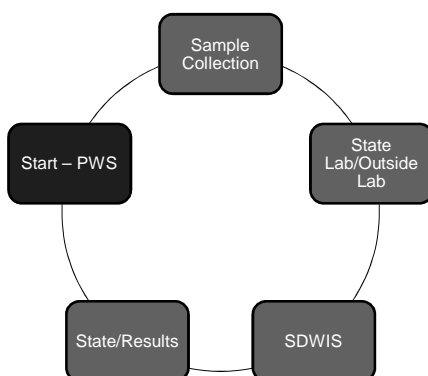
- 15 service connection – year round residents
- Serves at least 25 people



- LA1115099
- LA1 – community water system in Louisiana
- 115 – Vernon Parish
- 099 – specific to each system

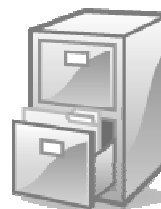
## State Database

- Safe Drinking Water Information System (SDWIS)
  - State
  - Federal
- Tracking chemical compliance
  - Schedules
  - Chemical Samples



## Sampling and Records

- Total Coliform Rule
- Surface Water treatment Rule
- Phase II/V Rule
- Lead and Copper Rule
- Disinfectants/Disinfection By Products Rule
- Radionuclides Rule
- Ground Water Rule
- Microbiological and Turbidity must be kept for no less than 5 years
- Chemical analyses shall be kept for no less than 10 years



## Annual Timeline

- |   |  |
|---|--|
| • State Timeline  | • Water System Timeline  |
| • April 1 <sup>st</sup> – Distribute CCRs to water systems                  | • June 30 <sup>th</sup> – Distribution of CCR to Consumers and the State         |
|   | ↓  |
| • After October 1 <sup>st</sup> – Review Certification and Issue Violations | • September 30 <sup>th</sup> – Submit Certification of Distribution to the State |

## Report Content

- Source water information
- Definitions
- Violations received by the water system
- Analyte Results collected for compliance
- Actions taken by the water system
- Health concerns to consumers

## CCR Report

### The Water We Drink

**Louisiana Water System**  
Public Water Supply ID: LA9999999

We are pleased to present to you the Annual Water Quality Report for the year 2007. This report is designed to inform you about the quality of your water and services we deliver to you every day (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien). Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water source(s) are listed below:

Source Name	Source Water Type	Source Water Body Name
INTAKE 001	Surface Water	MISSISSIPPI RIVER

## Definitions

- To help the customer better understand the report
  - Non-Detects (ND) – laboratory analysis indicates that the constituent is not present
  - Treatment technique (TT) – a treatment technique is a required process intended to reduce the level of a contaminant in drinking water
- Definitions can be removed or added based on report content

## Violations

During the period covered by this report we had below noted violations of drinking water regulations.

Type	Category	Analyte	Compliance Period
MONITORING, ROUTINE (DBP), MAJOR	Failure to Monitor	TOT_TTHM/HAA5	1/1/2007 - 3/31/2007
MONITORING, ROUTINE (DBP), MAJOR	Failure to Monitor	TOT_TTHM/HAA5	4/1/2007 - 6/30/2007

- List violation for the calendar year
- Add after action requirements – water system response to violation

## Microbiological

- Samples collected monthly by the State, or if elected, by the water system personnel
- Report the month with the highest number of positive samples
- Larger water systems report the month with the highest percentage of positive samples
- If no positive samples were detected for the calendar year, the report will state that no detections results were found

## Microbiological Samples

- If the water system collects  $< 40$

Our water system tested a minimum of 5 samples per month monthly sample(s) in accordance with the Total Coliform Rule for microbiological contaminants. During the monitoring period covered by this report, we had the following noted detections for microbiological contaminants:

Microbiological	Result	MCL	MCLG	Typical Source
COLIFORM (TCR)	In the month of May, 1 sample(s) returned as positive	MCL: Systems that Collect Less Than 40 Samples per Month - No more than 1 positive monthly sample	0	Naturally present in the environment

- If the water system collects  $\geq 40$

Our water system tested a minimum of 40 samples per month monthly sample(s) in accordance with the Total Coliform Rule for microbiological contaminants. During the monitoring period covered by this report, we had the following noted detections for microbiological contaminants:

Microbiological	Result	MCL	MCLG	Typical Source
COLIFORM (TCR)	In the month of August, 46.5% of samples returned as positive	MCL: Systems that Collect 40 or More Samples per Month - No more than .5% positive monthly samples;	0	Naturally present in the environment

## National Primary Regulations

- Inorganic Chemicals
  - ≈ 20 Chemicals
  - Arsenic, Barium, *etc.*
- Organic Chemicals
  - ≈ 50 Chemicals
  - Atrazine, Benzene
- Radionuclides
  - Alpha and Beta particles
- Microorganisms
  - *Cryptosporidium*, *Giardia lamblia*, *etc.*
- Disinfectants
  - Chloramines, Chlorine, Chlorine Dioxide
- Disinfection Byproducts
  - Bromate, Chlorite, HAA5, TTHM

## Rules and Regulations

- Chemical data collected from both treated and raw water
 

Total Coliform Rule	Radionuclides Rule
Surface Water Treatment Rule	Ground Water Rule
Phase II/V Rule (Chemicals)	Disinfectants/Disinfection By-Products Rule
Lead and Copper Rule	
- Data included from the last five years if recent information is not available
- Including Secondary Drinking Water Regulations are recommended

## Ethylene dibromide

- Maximum contaminant level
  - Traditional – 0.00005 ppm
  - CCR Units – 50 ppt
- Maximum Contaminant level goal
  - 0 ppt
- Major sources in drinking water
  - Discharge from petroleum refineries
- Health effects language

## Contaminant Table

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ARSENIC	7/25/2005	1	1	ppb	10		Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
ETHYLENE DIBROMIDE	7/25/2005	384	384	ppt	50	0	Discharge from petroleum refineries
FLUORIDE	7/25/2005	1.6	0.1 - 1.6	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
SELENIUM	7/25/2005	10	10	ppb	50	50	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
TURBIDITY	7/25/2005	0.28	0.13 - 0.28	NTU	1		Soil runoff

Lead and Copper	Date	90 <sup>th</sup> Percentile	95 <sup>th</sup> Percentile	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2004	0.3	0.3	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD	2004	6	8	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits



## Health Effects Language

- Appendix A to Subpart O of Part 141
- Ethylene dibromide
  - Some people who drink water containing ethylene dibromide in excess of the MCL over many years could experience problems with their liver, stomach, reproductive system, or kidneys, and may have an increased risk of getting cancer
- Mandatory Language and can not be revised

## Health Effects Language

### +Environmental Protection Agency Required Health Effects Language+

#### Additional Required Health Effects Language:

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

Some people who drink water containing ethylene dibromide in excess of the MCL over many years could experience problems with their liver, stomach, reproductive system, or kidneys, and may have an increased risk of getting cancer.

There are no additional required health effects violation notices.

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## Closing Statement

- Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. Please call our office if you have questions.
- We at the ABC water system work around the clock to provide top quality drinking water to every tap. We ask that all our customers help us protect and conserve our water sources, which are the heart of our community, our way of life, and our children's future.

## Report Inserts

- Turbidity for Surface Water Systems – Month with the highest percentage of values above the maximum contaminant level
- Disinfection Residuals
- IDSE Report Results – For large systems who have completed their Stage 2 D/DBP sampling
- Unregulated Contaminants Monitoring Rule 2 sample data
- Ground water rule data

## Additions to the CCR

- Addition of non-compliance samples
  - Included in a separate contaminant table from the compliance contaminant table
- Addition of response paragraphs
- Rephrasing of paragraphs submitted by the State is allowed. Must not change the overall meaning of the document or its' purpose

## Basic Requirements

- Receive base report from the State
- Review report for content
- Submit finalized report along with certification of distribution to the State



## Distribution



CCRs must be distributed with “**good-faith effort**” based on population served by the PWS as follows:

Population	Required Action
≤500	Notify customers of CCRs availability for review by hand or mail, or posting in public places
501-9,999	Must mail or otherwise directly deliver one copy of the report to every customer or publish the report in one or more local newspapers serving the area
10,000 – 99,999	Must mail or otherwise directly deliver one copy of the report to every customer
≥100,000	Must mail or otherwise directly deliver one copy of the report to every customer, <b>and</b> post on a publicly-accessible web site.

**Note:** Distribution requirements are based of the number of consumers, not the number of service connections

## Certificate of Distribution

- Required to complete the CCR evaluation

### Certificate of CCR Distribution

The below noted community public water system confirms that its 2007 Consumer Confidence Report has been prepared and distributed to its customers in accordance with the appropriate distribution method based on population served. Furthermore, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the primary agency as well as fulfilling all CCR requirements of CFR Title 40, Part 141. **Certified by:**

Signature \_\_\_\_\_ Printed Name/Job Title \_\_\_\_\_ / \_\_\_\_\_

PWS Name \_\_\_\_\_ Telephone No \_\_\_\_\_

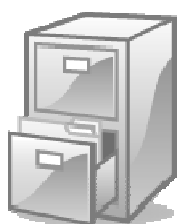
PWS Address \_\_\_\_\_

Date of CCR Distribution \_\_\_\_/\_\_\_\_/\_\_\_\_ CCR Distribution Method (s) \_\_\_\_\_

Submit the certification by September 30<sup>th</sup> of every year

## CCR Recordkeeping

- CCR reports shall be kept for a minimum of three years by the water system



- Must be made available upon request by either the State or consumers served by the system

## Future CCR additions

- Initial Distribution System Evaluation Reports (IDSE) Results for all systems – Stage 2 D/DBP Rule
  - Except 40/30 and VSS waiver water systems
  - Not compliance monitoring
  - Must be entered by the system
- Groundwater Rule
  - Non-corrected Significant Deficiencies
  - Triggered Monitoring
  - Must be entered by the system

## Future Changes

- Possibly putting all CCR reports online
  - Base documents are already online
  - Water system would still be required to review document for correctness
  - Water system would still have to submit certification
  - Notify customers of report availability
  - Keep for your records

## Q & A

- Where do you find the Consumer Confidence Rule?  
\_\_\_\_\_
- The water system is required to publish their CCR by what date? \_\_\_\_\_
- The most recent chemical data from the past \_\_\_ years should be included in the contaminants table
- The certificate of distribution is due to the state by what date? \_\_\_\_\_

## Q & A continued

- Can you make changes or rephrase some paragraphs in your annual report? \_\_\_\_
- Can you change or rephrase health affect language required for the CCR report? \_\_\_\_
- Do you have to include Secondary Drinking Water Regulations? \_\_\_\_
- How long do you have to keep the CCR report on file? \_\_\_\_

## Questions



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Lead and Copper Rule

Consumer Confidence Reports  
Rule

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Approved Laboratories